

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P573435

Luminaire Tested: **ARCH-S-PA2-70-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8778 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

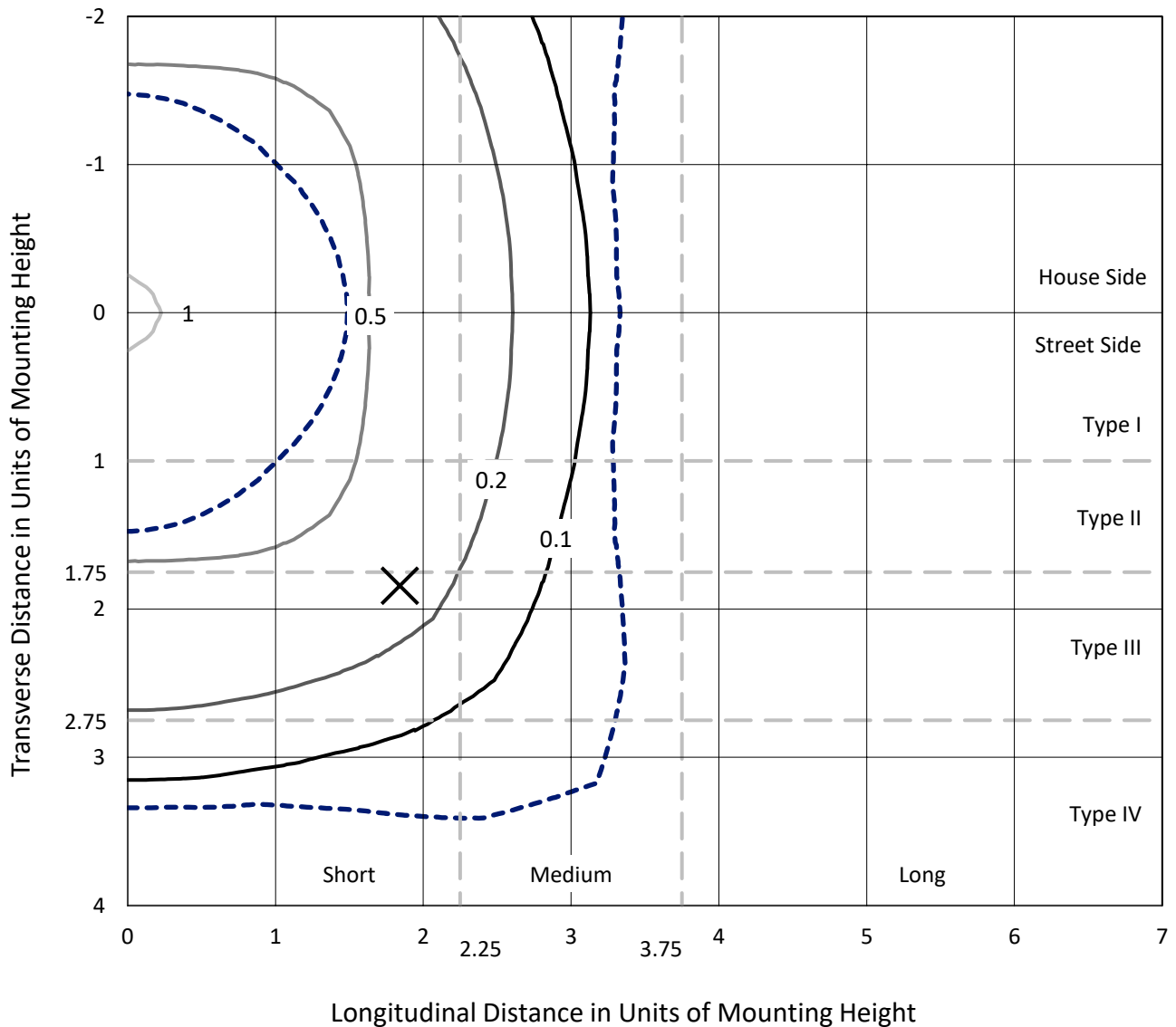
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

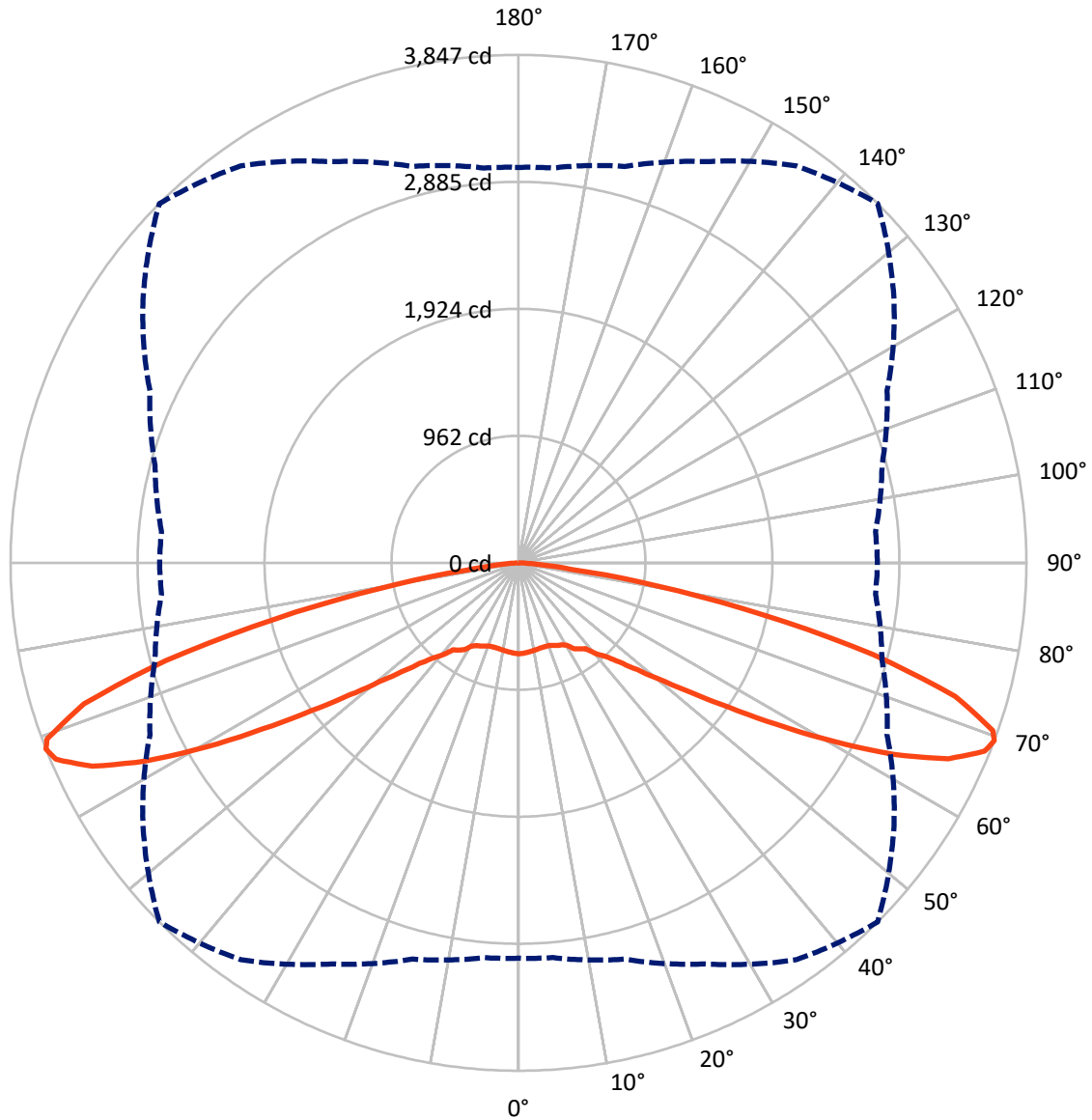
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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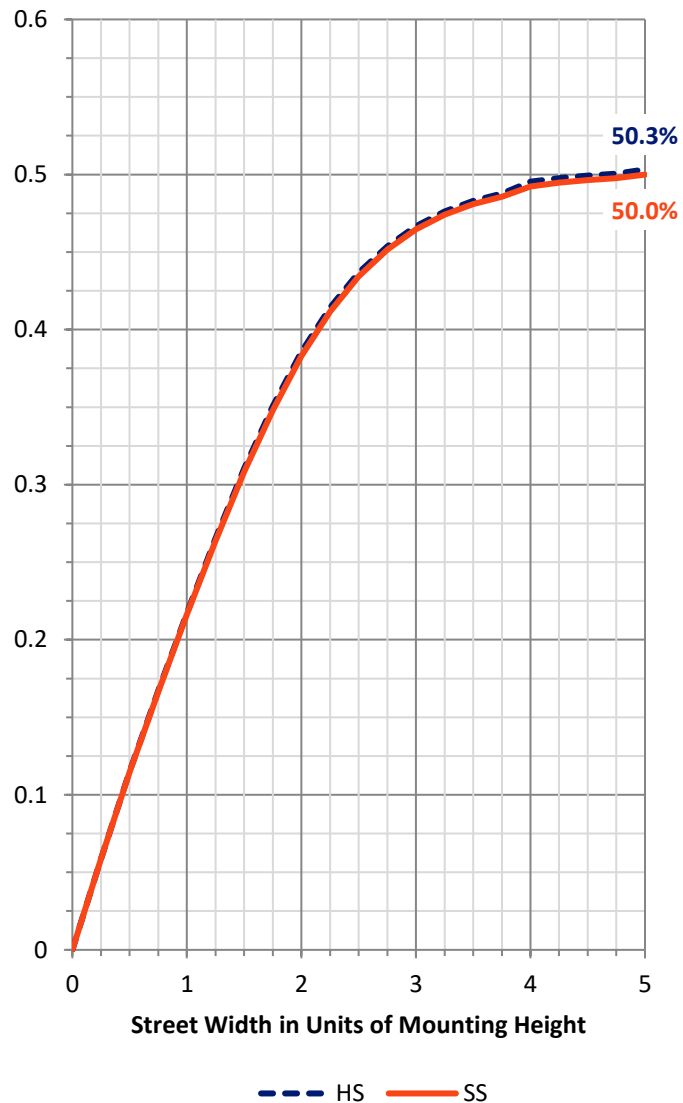
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4389.0	0.0	4389.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4389.0	0.0	4389.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8778.0	0.0	8778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	0.7
10°-20°	190.8	2.2
20°-30°	323.5	3.7
30°-40°	503.0	5.7
40°-50°	863.6	9.8
50°-60°	1718.1	19.6
60°-70°	3060.6	34.9
70°-80°	1927.5	22.0
80°-90°	125.9	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8778.0	100.0
0°-180°	8778.0	100.0

Coefficient of Utilization

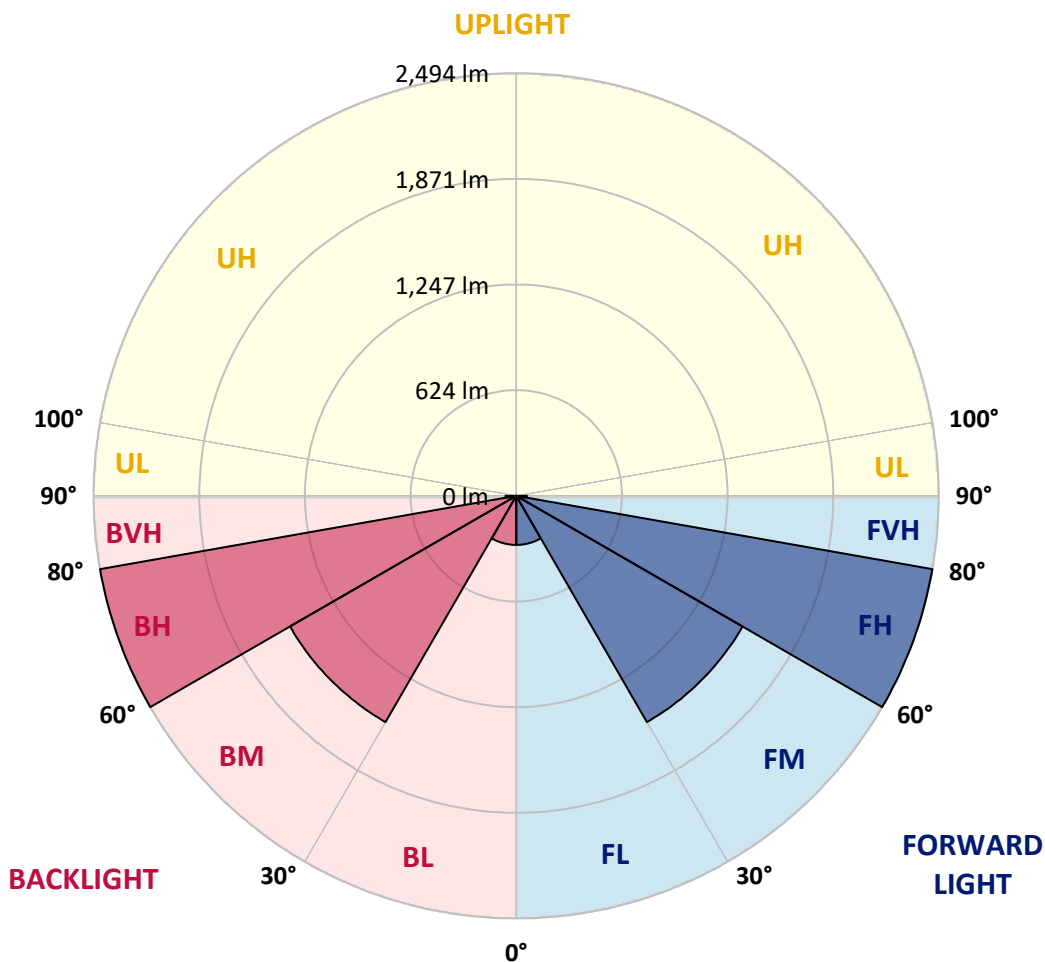


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.6	3.3			
FM (30°-60°)	1542.4	17.6			
FH (60°-80°)	2494.1	28.4			G2/5000
FVH (80°-90°)	62.9	0.7			G1/100
BL (0°-30°)	289.6	3.3	B1/500		
BM (30°-60°)	1542.4	17.6	B2/2500		
BH (60°-80°)	2494.1	28.4	B3/2500		G2/5000
BVH (80°-90°)	62.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8	688.8
2.5°	693.4	691.1	691.1	688.8	686.5	686.5	686.5	684.2	686.5	686.5	686.5
5°	691.1	688.8	686.5	684.2	684.2	681.9	684.2	681.9	681.9	681.9	681.9
7.5°	684.2	684.2	679.6	679.6	677.3	677.3	675.0	675.0	675.0	672.7	672.7
10°	684.2	681.9	679.6	675.0	672.7	672.7	672.7	670.4	672.7	672.7	672.7
12.5°	684.2	684.2	677.3	672.7	668.1	668.1	668.1	668.1	672.7	675.0	675.0
15°	688.8	686.5	679.6	670.4	665.8	665.8	665.8	668.1	672.7	677.3	677.3
17.5°	691.1	686.5	677.3	668.1	665.8	665.8	665.8	668.1	675.0	679.6	681.9
20°	693.4	691.1	679.6	670.4	668.1	668.1	668.1	668.1	675.0	681.9	684.2
22.5°	700.3	698.0	686.5	679.6	677.3	677.3	677.3	677.3	684.2	693.4	693.4
25°	709.6	704.9	693.4	688.8	688.8	693.4	693.4	688.8	695.7	702.6	704.9
27.5°	725.7	721.1	709.6	704.9	702.6	702.6	702.6	702.6	707.3	718.8	718.8
30°	739.5	737.2	732.6	732.6	730.3	725.7	725.7	730.3	732.6	737.2	739.5
32.5°	757.9	753.3	748.7	748.7	762.5	776.4	764.8	746.4	744.1	746.4	748.7
35°	797.1	792.5	781.0	774.1	787.9	801.7	783.3	771.8	778.7	785.6	785.6
37.5°	852.4	850.1	840.9	827.0	822.4	824.7	817.8	827.0	845.5	859.3	861.6
40°	910.0	907.7	898.5	891.6	893.9	905.4	900.8	891.6	903.1	912.3	912.3
42.5°	999.8	990.6	976.8	958.4	960.7	969.9	958.4	967.6	983.7	999.8	1002.1
45°	1119.6	1110.4	1092.0	1075.9	1064.3	1068.9	1068.9	1085.1	1103.5	1121.9	1128.8
47.5°	1248.6	1246.3	1227.9	1214.1	1202.6	1209.5	1209.5	1209.5	1239.4	1257.9	1257.9
50°	1407.6	1400.7	1400.7	1389.2	1384.6	1386.9	1377.6	1386.9	1400.7	1405.3	1398.4
52.5°	1596.5	1589.6	1594.2	1598.8	1610.3	1626.5	1603.4	1601.1	1594.2	1587.3	1585.0
55°	1822.3	1829.2	1847.6	1877.6	1896.0	1928.2	1893.7	1852.2	1833.8	1815.4	1801.5
57.5°	2091.8	2103.3	2131.0	2202.4	2280.7	2310.7	2250.8	2174.7	2110.2	2057.3	2068.8
60°	2444.3	2437.4	2483.4	2580.2	2690.8	2750.7	2656.2	2531.8	2428.2	2402.8	2409.7
62.5°	2819.8	2833.6	2865.9	2994.9	3133.1	3197.6	3082.4	2898.1	2764.5	2695.4	2695.4
65°	3054.8	3064.0	3153.8	3335.8	3490.2	3577.7	3414.2	3146.9	2955.7	2840.5	2833.6
67.5°	3089.3	3098.6	3199.9	3432.6	3686.0	3808.1	3524.7	3176.9	2953.4	2812.9	2808.3
69°	2994.9	3001.8	3107.8	3352.0	3669.9	3847.3	3471.8	3080.1	2849.7	2713.8	2718.4
70°	2859.0	2886.6	2967.2	3216.0	3584.6	3812.7	3375.0	2971.8	2732.3	2624.0	2605.5
72.5°	2241.6	2260.0	2393.6	2702.3	3199.9	3460.2	2964.9	2515.7	2271.5	2158.6	2186.3
75°	1269.4	1264.8	1435.2	1877.6	2467.3	2771.4	2333.7	1810.8	1456.0	1320.1	1338.5
77.5°	483.8	504.5	619.7	963.0	1550.4	1893.7	1548.1	967.6	677.3	527.6	502.2
80°	156.7	165.9	218.9	350.2	661.2	1068.9	723.4	373.2	235.0	177.4	165.9
82.5°	62.2	69.1	82.9	117.5	223.5	403.2	244.2	135.9	101.4	82.9	76.0
85°	34.6	32.3	43.8	53.0	76.0	115.2	82.9	64.5	55.3	39.2	36.9
87.5°	11.5	11.5	18.4	18.4	20.7	18.4	20.7	23.0	23.0	13.8	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)